

## Title (en)

OPHTHALMOLOGICAL DEVICE FOR THE TREATMENT OF LSCD AND SUBSTRATE FOR USE IN SAME

## Title (de)

OPHTHALMOLOGISCHE VORRICHTUNG ZUR BEHANDLUNG VON LSCD UND SUBSTRAT ZUR VERWENDUNG DARIN

## Title (fr)

DISPOSITIF OPHTHALMOLOGIQUE POUR LE TRAITEMENT DE LSCD ET SUBSTRAT À UTILISER DANS CELUI-CI

## Publication

**EP 3842079 A1 20210630 (EN)**

## Application

**EP 19219707 A 20191224**

## Priority

EP 19219707 A 20191224

## Abstract (en)

The invention pertains to an ophthalmological device (100, 200) for the treatment of Limbal Stem Cell Deficiency, the device (100, 200) comprising: a stem cell carrier substrate; and a culture of limbal epithelial stem cells cultivated on said stem cell carrier substrate; wherein said stem cell carrier substrate comprises a hydrogel containing collagen or collagen-mimicking peptides; and wherein a ring-shaped area on a surface of said stem cell carrier substrate is provided with a pattern of niches (110, 210). The invention also pertains to a method for producing the ophthalmological device.

## IPC 8 full level

**A61L 27/54** (2006.01); **A61L 27/24** (2006.01); **A61L 27/38** (2006.01); **A61L 27/52** (2006.01)

## CPC (source: EP US)

**A61K 9/0024** (2013.01 - US); **A61K 9/06** (2013.01 - US); **A61K 35/36** (2013.01 - US); **A61K 47/42** (2013.01 - US); **A61L 27/24** (2013.01 - EP); **A61L 27/3813** (2013.01 - EP); **A61L 27/52** (2013.01 - EP); **A61L 27/54** (2013.01 - EP); **C12N 5/0623** (2013.01 - US); **A61L 2430/16** (2013.01 - EP)

## Citation (applicant)

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WO2024154054A1

## Designated contracting state (EPC)

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## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

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## DOCDB simple family (application)

**EP 19219707 A 20191224**; CA 3165485 A 20201223; EP 2020087811 W 20201223; EP 20839101 A 20201223; US 202017757356 A 20201223